

Diagnosis and Treatment Selection for Eosinophilic Granulomatosis with Polyangiitis: Person-Centered Care in EGPA

Characteristics

- Moderate to severe asthma
- Peripheral blood eosinophilia (> 10% eosinophils)
- Pulmonary infiltrates
- Paranasal sinus abnormality
- Mononeuropathy or polyneuropathy
- Extravascular eosinophils/eosinophilic vasculitis of small- to medium-sized blood vessels
- Positive ANCA

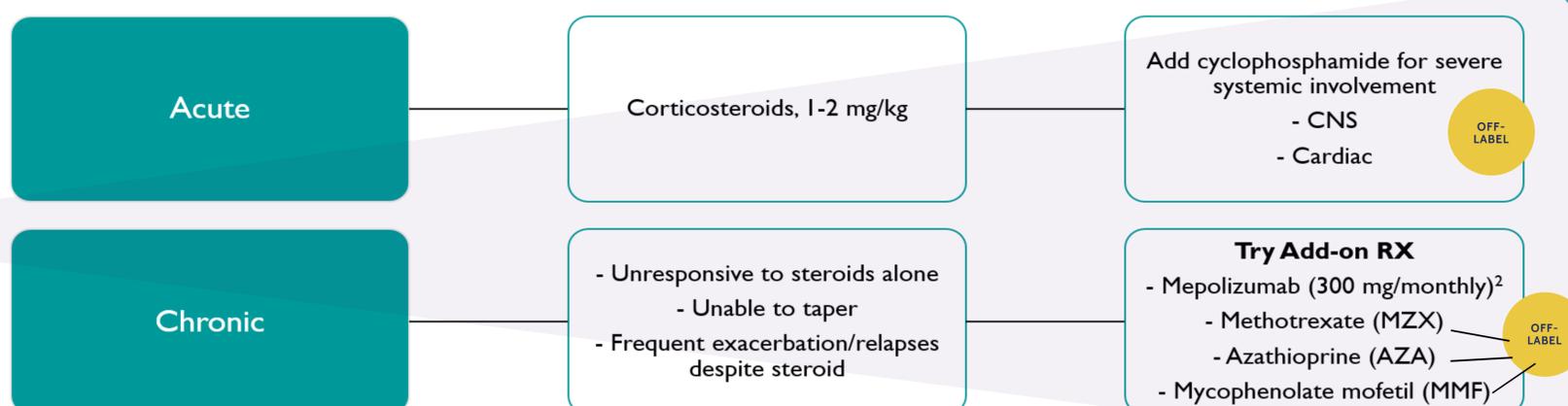
Organ Involvement



Differential Diagnosis

	Acute Eosinophilic Pneumonia	Chronic Eosinophilic Pneumonia	Hypereosinophilic Syndrome	Eosinophilic Granulomatosis with Polyangiitis
Key Features ¹	Acute febrile illness; hypoxemic respiratory failure; diffuse pulmonary infiltrates; BAL fluid eosinophils > 25%; previously healthy person	Subacute illness; eosinophilia in lung tissue and blood; bilateral pulmonary infiltrates may be peripheral in location	Sustained overproduction of eosinophils; marked peripheral blood eosinophilia; tissue eosinophilia; end-organ damage; includes myeloproliferative, lymphocytic, familial, and idiopathic variants	Necrotizing vasculitis of small- to medium-sized blood vessels; asthma; eosinophil-rich granulomatous inflammation of respiratory tract; involves multiple organs
Onset	Acute (days)	Indolent (weeks/months)	Indolent (months/years)	Indolent (months/years)
Pulmonary infiltrates	Diffuse	Peripheral	Patchy	Patchy
Frequently Occurs	<ul style="list-style-type: none"> • Fulminant respiratory failure 	<ul style="list-style-type: none"> • Chronic sinusitis 	<ul style="list-style-type: none"> • Cardiac involvement • Neurologic involvement 	<ul style="list-style-type: none"> • Asthma/allergy history • Vasculitis • Neurologic involvement
Commonly Occurs	<ul style="list-style-type: none"> • Smoking history 	<ul style="list-style-type: none"> • Asthma/allergy history 	<ul style="list-style-type: none"> • Requirement for therapies other than corticosteroids 	<ul style="list-style-type: none"> • ANCA • Cardiac involvement • Requirement for therapies other than corticosteroids

Treatment



References: 1 Wechsler ME. Pulmonary eosinophilic syndromes. Immunol Allergy Clin N Am. 2007;27:477-492.3
2 Wechsler, ME, et al. Mepolizumab or Placebo for Eosinophilic Granulomatosis with Polyangiitis. N Engl J Med. 2017 May 18;376(20):1921-1932.

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